

What is claimed is:

1. A multicast service providing method in a wireless system in which a logical channel data is mapped to a common transport channel and transmitted  
5 to a receiving end, wherein a dedicated logical channel data and a common logical channel data are transmitted by using an uni-directional shared channel, such that the dedicated logical channel data and common logical channel data can be identified at the receiving end

10 2. The method of claim 1, wherein the dedicated logical channel is a dedicated traffic channel (DTCH) or a dedicated control channel (DCCH).

3. The method of claim 1, wherein the dedicated logical channel data is a multimedia broadcast/multicast service (MBMS) data.

15

4. The method of claim 1, wherein the common logical channel is an MBMS traffic channel (MTCH) or an MBMS control channel (MCCH).

5. The method of claim 1, wherein the dedicated logical channel data  
20 and common logical channel data are identified by a logical channel identifier.

6. The method of claim 5, wherein the logical channel identifier is a target channel type field (TCTF).

25 7. The method of claim 1, wherein the shared channel is a downlink

shared channel (DSCH).

8. The method of claim 1, wherein the shared channel is a channel that transmits a data only.

5

9. The method of claim 1, wherein a control of the shared channel is a channel of which control information is transmitted through an associated channel.

10 10. The method of claim 1, wherein a data of the shared channel includes:

an indicator indicating a logical channel type;  
an indicator indicating a multicast service type; and  
a service data unit.

15

11. In a wireless communication method which a dedicated logical channel data and a common logical channel data are transmitted by using an unidirectional shared channel, wherein a data transmitted through the shared channel includes:

20 a first indicator indicating a logical channel type;  
a second indicator indicating a multicast service type; and  
a service data unit.

12. The method of claim 11, wherein the first indicator is a target  
25 channel type field (TCTF).

13. The method of claim 11, wherein the second indicator includes:  
a terminal identifier; and  
an indicator indicating a type of the terminal identifier.

5

14. The method of claim 13, wherein the terminal identifier is an MBMS  
radio network temporary identifier (RNTI).

15. The method of claim 11, wherein the first and second indicators are  
10 includes a header.

16. A method of providing a multicast service in a radio  
communication system, the method comprising:

receiving data of a dedicated logical channel having a corresponding first  
15 dedicated transport channel,

receiving data of a common logical channel having a corresponding  
second dedicated transport channel,

processing the dedicated logical channel data and the common logical  
channel data to form multiplexed data that contains an identifier to provide  
20 distinction between the dedicated logical channel data and the common logical  
channel data;

newly establishing a shared transport channel independent from the first  
and second dedicated transport channels; and

transporting the multiplexed data via the newly established shared  
25 transport channel.

17. The method of claim 16, further comprising a step of demultiplexing the multiplexed data received via the shared transport channel by using the identifier within the received multiplexed data.

5